SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product
NORDOX® 30/30 WG  EPA Reg. No. 48142-7
Common Name: Granular copper-based fungicide
Chemical Description: Cuprous oxide and zinc oxide mixture
TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured By
NORDOX AS
c/o Monterey AgResources
P.O. Box 35000
Fresno, CA  93745-5000

Emergency Phone Numbers
Emergency Telephone: DAYS: (559) 499-2100  EVES.: (559) 994-9144
CHEMTREC (24-Hour Emergency Number): (800) 424-9300
EPA National Response Center:  (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>CAS NO.</th>
<th>%</th>
<th>TLV OR PEL</th>
<th>RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cuprous oxide*</td>
<td>1317-39-1</td>
<td>33.8</td>
<td>1 mg/m³</td>
<td>- - -</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(dusts and mists, as Cu, 8 hr. TWA)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA / ACGIH</td>
<td></td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>37.2</td>
<td>2 mg/m³ / 10 mg/m³</td>
<td>- - -</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV (TWA) / STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>OSHA PEL</td>
</tr>
</tbody>
</table>

*Metallic copper equivalent 30%

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Under certain conditions, cuprous oxide may react violently with strong reactants such as acids, bases, and metals such as, but not limited to, Al and Mg. Copper fumes will be released if cuprous oxide is heated above its melting point (2255°F). Not D.O.T. Regulated.

HEALTH: 1  REACTIVITY: 1  FLAMMABILITY: 0  ENVIRONMENT: 0
(0=Insignificant 1=Slight  2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

Ingestion: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: Nonflammable.
Test Method: Not pertinent.
LEL Flammable Limits: Not pertinent.
UEL Flammable Limits: Not pertinent.
Autoignition Temperature: Not pertinent.
Flammability Classification: Nonflammable.
Known Hazardous Products of Combustion: Copper fumes.
Properties that Initiate/Contribute to Intensity of Fire: None.
Potential For Dust Explosion: None.
Reactions that Release Flammable Gases or Vapors: None known.
Potential For Release of Flammable Vapors: None.
Unusual Fire & Explosion Hazards: None.
Extinguishing Media: Does not burn. Use water, CO₂, foam or dry chemical as appropriate for surrounding fire.
Special Firefighting Procedures: If water is used to extinguish fires, contain water to prevent contamination of drinking water supplies or streams. Move bags from fire area if it can be done without risk.

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering drinking water supplies or streams.
Clean Up: Wearing protective clothing, use a clean shovel and carefully place material into clean, dry container and cover; remove from area. Use according to label instructions or dispose of at an approved waste disposal facility. Flush spill area with water and collect liquid or absorb onto absorbent material and package for disposal.
Evacuation: Not necessary, but restrict entry.

SECTION 7. STORAGE AND HANDLING

Storage: Store original bags in a cool, well ventilated, dry place. Keep away from strong alkalies, acids and/or oxidizing agents. Do not reuse bag. Do not store near food or feeds.
Work/Hygienic Practices: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Do not contaminate feed and foodstuffs. Users should: (1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet; (2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing; (3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes: Chemical dust/splash goggles, safety glasses or full-face shield may be worn to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin: Chemical-resistant gloves made of any waterproof material and impervious clothes if skin contact is probable and skin is sensitive.
Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation: TWA TLV for metallic copper = 1 mg/m³. Provide appropriate ventilation and/or dust respirators to control dust level to below TLV.
SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance: Yellowish-brown water dispersible granules.
Odor: None.
pH: 8.0 – 9.0.
Vapor Pressure: Not applicable.
Vapor Density (Air=1): Not applicable.
Boiling Point: Not applicable
Freezing Point: Not applicable.
Water Solubility: Not applicable.
Density: 1.2 kg/l (+/- 0.1).
Evaporation Rate: Not applicable.
Viscosity: Not applicable.
% Volatile: Not applicable.
Octanol/Water Partition Coefficient: Not applicable.
Saturated Vapor Concentration: Not applicable.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Under certain conditions cuprous oxide may react violently with strong reactants such as acids, bases, and metals such as, but not limited to, Al and Mg. Zinc oxide and magnesium can react explosively when heated. Take precautionary measures against static discharges. Avoid high humidity.
Incompatibility: Not available.
Hazardous Decomposition Products: Copper fumes will be released if cuprous oxide is heated above its melting point (2255°F).
Hazardous Polymerization: Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:
Eyes: May cause irritation (redness and/or burning). Moderate irritant.
Skin: May cause irritation (redness and/or itching). LD$_{50}$ > 2000 mg/kg.
Ingestion: May cause nausea, vomiting and diarrhea. LD$_{50}$ > 2500 mg/kg.
Inhalation: May cause respiratory irritation and coughing. LC$_{50}$ > 5.03 mg/l.

Subchronic Effects: None known.
Chronic Effects: None known.
SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.
Toxicity to Fish and Invertebrates: Cuprous oxide migration into the aquatic environment is likely to be minimal; if it does enter the environment, it will not be in sufficient concentration to have a significant impact on aquatic systems.
Toxicity to Plants: Not known.
Toxicity in Birds: Copper compounds present little or no danger to avian organisms.

SECTION 13. DISPOSAL

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T. Proper Shipping Description: Not D.O.T. Regulated.
Other Shipping Description: Insecticides or Fungicides, Agricultural, Dry.
(NMFC Item 102120, LTL Class 60)

SECTION 15. REGULATORY INFORMATION

CERCLA: Copper and its compounds are listed as priority pollutants by the EPA under the Clean Water Act and as such fall under CERCLA spill reporting requirements of 40 CFR 302 (RQ=5000 pounds for metallic copper).
SARA TITLE III, Section 313 Toxic Chemicals: This product contains copper compounds and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
PROPOSITION 65: None.

SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Monterey AgResources does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Monterey AgResources assumes legal responsibility.